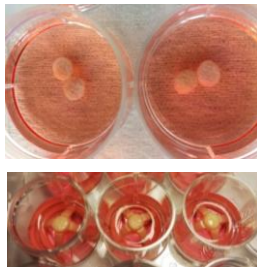


# Analyzing skin barrier integrity *ex vivo*

## Our experimental design:



Skin organ culture

full-thickness human skin

Application modes of your compound:

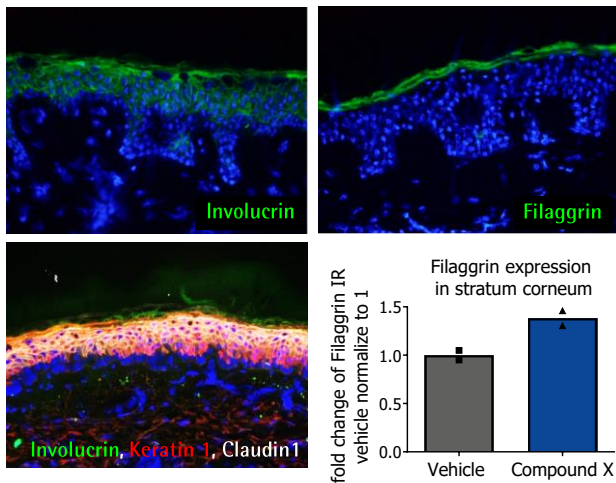
Topical  
Systemic  
Intradermal

Induction of  
pathological conditions:

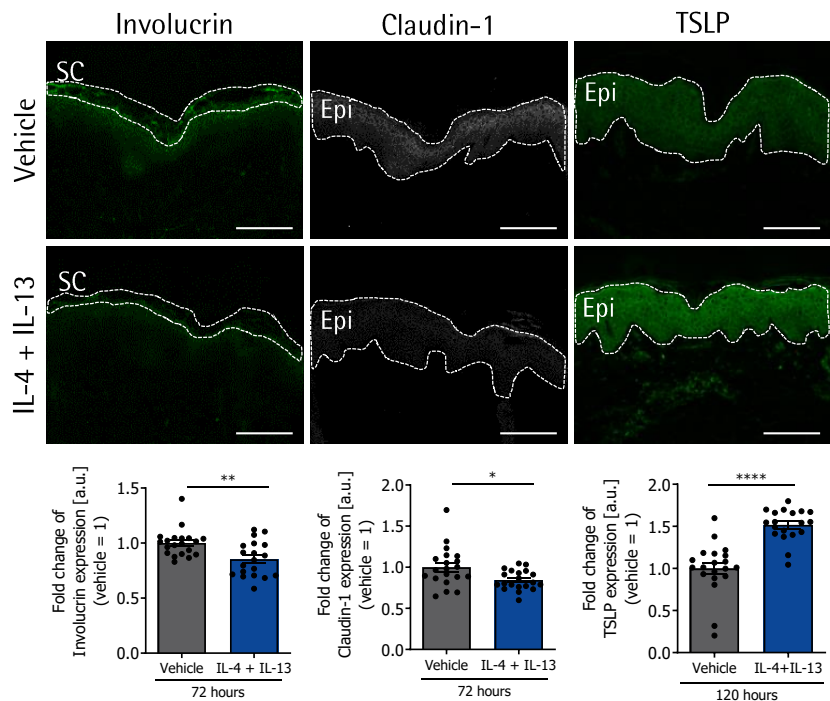
UV radiation, pollution, oxidative stress, ...

We have access to diseased skin samples (e.g. atopic dermatitis, psoriasis,...)

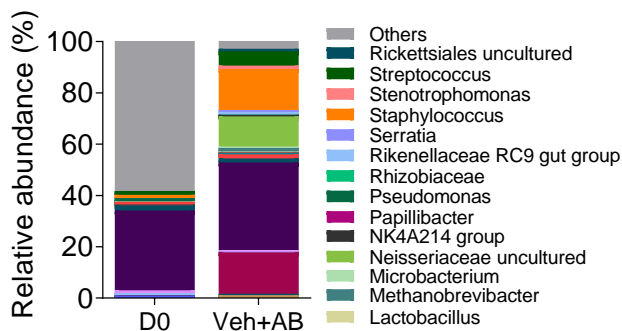
## ➤ Quantitative immunohistomorphometry



## ➤ Induction of barrier defects by IL-4/IL-13 treatment

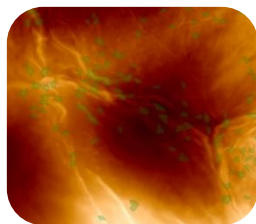


## ➤ Microbiome analysis of the skin



➔ 16s/ITS sequencing, shotgun sequencing, alpha diversity and taxonomic evaluations, ...

➤ Analysis of corneocyte nanotexture using atomic force microscopy



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of lipid content and neosynthesis  
(e.g. ceramides)

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Contact us for a  
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## Publications:

Keren et al., Allergy 2023; Riethmüller et al., Exp Dermatol 2018; Hulshof et al., Br J Dermatol 2018; Soltanipoor et al., Contact Dermatitis 2018; Engebretsen et al., Br J Dermatol 2018



MONASTERIUM  
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[www.monasteriumlab.com](http://www.monasteriumlab.com)



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Skin and Hair Research Solutions GmbH



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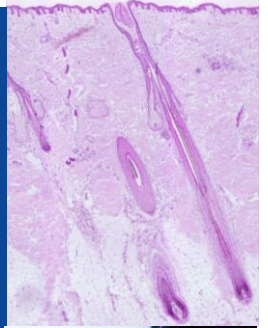


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